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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/896,244	06/28/2001	Sreeram Duvvuru	P6197	9154	
35690 7590 04/09/2007 MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C. P.O. BOX 398 AUSTIN, TX 78767-0398			EXAMINER		
			LESNIEWSKI, VICTOR D		
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	·	Application No.	Applicant(s)				
Office Action Summary		09/896,244	DUVVURU, SREERAM				
		Examiner	Art Unit				
		Victor Lesniewski	2152				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period or the toreply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this, communication. D (35 U.S.C. § 133).				
Status	,						
2a)⊠	Responsive to communication(s) filed on <u>13 F</u> .  This action is <b>FINAL</b> . 2b) This Since this application is in condition for alloward closed in accordance with the practice under Expression 1.	s action is non-final.  nce except for formal matters, pro					
Dispositi	ion of Claims						
5)□ 6)⊠ 7)⊠	Claim(s) 1-27 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-27 is/are rejected. Claim(s) 17 is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers							
9)□ 10)□	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specification is objected.	epted or b) objected to by the drawing(s) be held in abeyance. Set tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority (	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachmen	nt(s)						
2)  Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

#### **DETAILED ACTION**

- 1. The amendment filed 2/13/2007 has been placed of record in the file.
- 2. Claims 9-16, 18, and 27 have been amended.
- 3. The rejection of claims 10-18 under 35 U.S.C. 101 is withdrawn in view of the amendment.
- 4. Claims 1-27 are now pending.
- 5. The applicant's arguments with respect to claims 1-27 have been fully considered but they are not persuasive. A detailed discussion is set forth below.

## Response to Amendment

- 6. Claim 10 has been amended to state "a computer-readable storage medium". Concerning the applicant's specification, a storage medium is interpreted as comprising non-volatile or volatile media. A computer-readable storage medium does not comprise transmission media. Thus, the rejection of claims 10-18 under 35 U.S.C. 101 has been withdrawn.
- 7. Claims 9, 18, and 27 have been amended to show that the request is dispatched to a software component. The amendment proves a change in scope to these dependent claims as the claims now explicitly state that a request manager service dispatches said request including said quality of service context, to a software component in a plurality of software components, based on said quality of service context. However, none of the amended claims show a patentable distinction over the prior art of record as discussed below.
- 8. Several status identifiers in the amendment have been found to be improper. Please refer to 37 CFR 1.121(c) and submit the proper status identifiers in any future amendments.

Art Unit: 2152

#### Claim Objections

Page 3

9. Claim 17 is objected to because it states "the computer-readable medium of claim 10," while claim 10 states "a computer-readable storage medium." It is assumed that the applicant intends to claim "the computer-readable storage medium of claim 10." Appropriate correction is required.

#### Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mangipudi et al. (U.S. Patent Number 6,728,748), hereinafter referred to as Mangipudi, in view of Lin et al. (U.S. Patent Number 6,463,068), hereinafter referred to as Lin.
- 12. Mangipudi disclosed a method for policy based class of service management that utilizes multiple class of service levels. In an analogous art, Lin disclosed a router that includes a classifier that classifies packets based on class of service.
- 13. Concerning claims 1, 10, and 19, Mangipudi did not explicitly state that the propagating step includes sending data indicating the quality of service context with the request. However, sending data with a request that indicates the quality of service context was well known in the art as evidenced by Lin whose system writes tag information into the request so that the class of

Application/Control Number: 09/896,244 Page 4

Art Unit: 2152

service of the packet may be identified. It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the system of Mangipudi by adding the ability to send data indicating the quality of service context with the request as provided by Lin. Here the combination satisfies the need for a routing system that can be flexibly designed and implemented and that ensures that users are directed to web servers and content commensurate with their service levels. See Mangipudi, column 6, lines 33-41. This rationale also applies to those dependent claims utilizing the same combination.

- 14. Some claims will be discussed together. Those claims which are essentially the same except that they set forth the claimed invention as a computer readable medium or a system are rejected under the same rationale applied to the described claim. The below citations refer to Mangipudi unless otherwise noted.
- 15. Thereby, the combination of Mangipudi and Lin discloses:
  - <Claims 1, 10, and 19>

A computer-implemented method for providing differentiated quality of service in an application server, comprising: a server system receiving a request, wherein said request includes information indicating at least one of user identity, current user role, or a time constraint (column 9, lines 55-61); and in response to receiving the request: accessing pre-determined policy data (column 9, lines 45-51); establishing a quality of service context based on said information included in said request and said policy data (column 9, lines 37-51); and propagating said quality of service context with said request in the server system (column 10, lines 25-31), wherein said propagating comprises sending data

Application/Control Number: 09/896,244 Page 5

Art Unit: 2152

indicating the quality of service context with the request (Lin, column 3, lines 12-25 and 45-55).

• <Claims 2, 11, and 20>

The method of claim 1, wherein said information further indicates a requested service (column 7, lines 6-9).

• <Claims 3, 12, and 21>

The method of claim 1 wherein said quality of service context includes information indicating at least one of service class, priority, or deadline (column 9, lines 45-51).

<Claims 4, 13, and 22>

The method of claim 1 wherein said establishing a quality of service context is completed at an ingress point (column 7, lines 9-16).

• <Claims 5, 14, and 23>

The method of claim 4 wherein said ingress point is at least one of a web server or a protocol manager service within said server system (column 9, line 65 through column 10, line 9).

<Claims 6, 15, and 24>

The method of claim 1 further comprising, propagating the same quality of service context with a subsequent request related to said request (column 11, lines 38-41).

• <Claims 7, 16, and 25>

The method of claim 1 wherein said propagating includes inserting said quality of service context adjacent to at least one of a security and transaction context (column 10, lines 21-25).

Application/Control Number: 09/896,244 Page 6

Art Unit: 2152

• <Claims 8, 17, and 26>

The method of claim 1 wherein a load balancing service dispatches said request including said quality of service context, to an application server in a plurality of application servers, based on said quality of service context (column 10, lines 25-31).

• <Claims 9, 18, and 27>

The method of claim 1 wherein a request manager service dispatches said request including said quality of service context, to a software component in a plurality of software components, based on said quality of service context (column 10, lines 25-31 and column 7, line 56 through column 8, line 18).

Since the combination of Mangipudi and Lin discloses all of the above limitations, claims 1-27 are rejected.

### Response to Arguments

- 16. In the remarks, the applicant has argued:
  - <Argument 1>

The combination of Mangipudi and Lin does not disclose the features of claim 1 because it does not disclose "propagating said quality of service context with said request in the server system, wherein said propagating comprises sending data indicating the quality of service context with the request" as recited in claim 1.

• <Argument 2>

The motivation to combine Mangipudi and Lin is improper.

Art Unit: 2152

### • <Argument 3>

The combination of Mangipudi and Lin does not disclose the features of claim 7 because it does not disclose "inserting said quality of service context adjacent to at least one of a security and transaction context" as recited in claim 7.

Page 7

### <Argument 4>

The combination of Mangipudi and Lin does not disclose the features of claim 9 because it does not disclose "wherein a request manager service dispatches said request including said quality of service context, to a software component in a plurality of software components, based on said quality of service context" as recited in claim 9.

- 17. In response to argument 1, the combination of Mangipudi and Lin does disclose the propagating step as recited in claim 1. As the applicant admits, "Mangipudi teaches that a class of service is defined for an incoming request and based on that class of service, the request will be forwarded to a particular server machine." This meets the limitation of propagating a quality of service context with a request. Thus, even though the applicant states that "Mangipudi clearly teaches away from propagating a quality of service context with a request," Mangipudi actually teaches this and does not teach away. As the applicant states, "Mangipudi teaches assigning an incoming request a particular class, and based on that class, forwarding the request to a particular server or cluster." Clearly this means that each forwarded request has a context.
- 18. Lin was cited as disclosing the further limitation that the propagating "comprises sending data indicating the quality of service context with the request." The applicant has not argued the teaching of this limitation by Lin. Again concerning the argument that Mangipudi teaches away,

Art Unit: 2152

it is maintained that Mangipudi does not explicitly state that data indicating the context cannot be included with the request.

Page 8

- 19. In response to argument 2, it is maintained that the motivation to combine Mangipudi and Lin is proper. Mangipudi states the need for a routing system that can be flexibly designed and implemented and that ensures that users are directed to web servers and content commensurate with their service levels. Providing class of service tags as taught by Lin is seen as another way to ensure that users are directed to web servers and content commensurate with their service levels. One of ordinary skill in the art with knowledge of Mangipudi's system would have easily been able to combine the teachings of Lin to provide class of service tags in requests.
- 20. In response to argument 3, the combination of Mangipudi and Lin does disclose a quality of service context adjacent to a transaction context as recited in claim 7. The previous line citation to Mangipudi, column 10, lines 21-25, shows transaction prioritization used in conjunction with the class of service parameters. This meets the limitation of an adjacent transaction context. The claim simply states "at least one of a security and transaction context" and provides no further information or detail so as to define or describe what a security context or a transaction context may be. Mangipudi clearly states a transaction context as his system even tracks the transaction type of requests. See also column 13, lines 28-41. It is also noted that Mangipudi's system can implement classes of service in conjunction with an authentication process (see column 9, lines 58-67), which could be considered a security context.
- 21. The applicant has gone on to argue that the claim is distinguished based on the word "inserting." However, the "inserting" is not further described in the claim so as to show how it differentiates from the prior art. As already discussed, Mangipudi teaches the presence of a

Art Unit: 2152

quality of service context when forwarding requests in the system. If the applicant intends to claim that the data indicating the quality of service context is inserted into the request packet in some specific fashion, then the applicant should make this clear in the claims.

- 22. In response to argument 4, the combination of Mangipudi and Lin does disclose dispatching said request to a software component as recited in claim 9. Although the applicant has argued that Mangipudi teaches selecting a particular back-end server machine based on a class of service, Mangipudi's back-end servers are operated by software components. In fact, Mangipudi's whole server system is based on the functionality of distributed software processes. In order for the back-end server to receive the forwarded request it must utilize particular software components. For further detail, see Mangipudi, column 7, line 56 through column 8, line 18.
- 23. In addition, the applicant has argued that claims rejected under 35 U.S.C. 103, but not explicitly discussed, are allowable based on the above arguments. Thus, claims disclosing similar limitations to the discussed claims and related dependent claims remain rejected under the same reasoning as presented above.

#### Conclusion

24. The applicant's amendment necessitated the new grounds of rejection presented in this office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). The applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

25. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor Lesniewski whose telephone number is 571-272-3987. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on 571-272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000

Victor Lesniewski Patent Examiner Group Art Unit 2152

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